



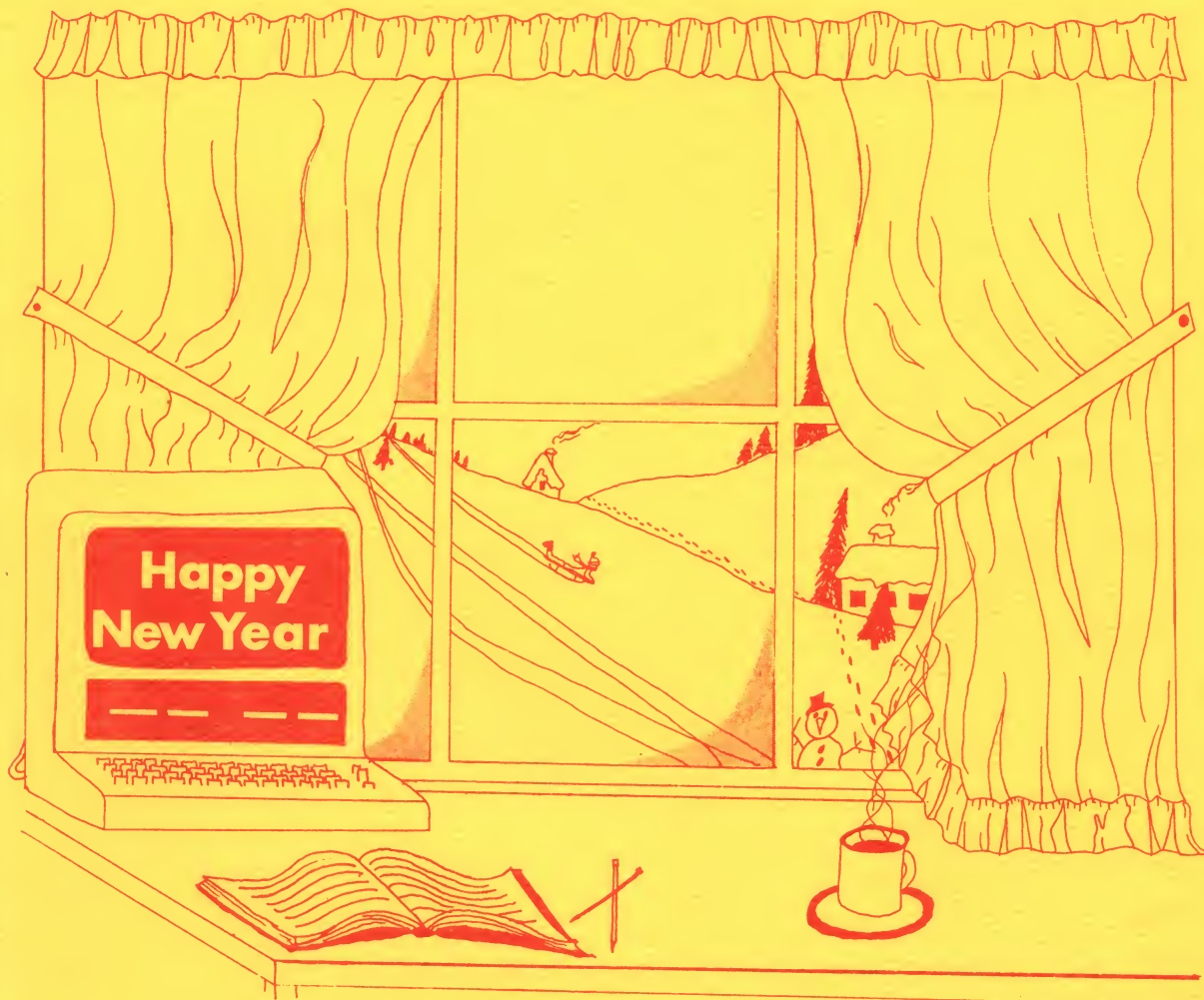
ENERGY

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ENERGY = MC^2 ...THE MICHIGAN COMPUTER CONSORTIUM MAGAZINE

ISSN: 0740-2759

JANUARY 1987



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Subscriptions to ENERGY are provided as a benefit of membership in one of the clubs constituting the Consortium. For information about joining one of the clubs, refer to the club data section of this issue or write to the club in care of the Consortium at the address above. Individual copies of ENERGY can also be purchased at many greater Lansing area locations.

Please check the mailing label on each issue of ENERGY that you receive. Notify your club officers if your address changes. The date on the ENERGY mailing label is a reminder of your current membership term.

ABOUT THE MICHIGAN COMPUTER CONSORTIUM

The Michigan Computer Consortium was formed in 1983 to sponsor joint activities involving member clubs. Current members of MC² are:

AppleLUG	Apple Lansing Users Group
CCUG	Color Computer Users Group
CHAOS	Capitol Hill Atari Owners Society
M ³ G	Mid-Michigan Microcomputer Group
UPCO	Users Personal Computer Organization

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ADVERTISING

Your advertisement in ENERGY will reach over 500 active computer users in the greater Lansing area. Four sizes of ads are available, with discounts provided for multi-issue contracts. Camera-ready ad copy is generally needed by the 15th of the month preceding publication. Limited graphics artwork is available at an extra charge. For more information, contact the Advertising Manager listed above.

ARTICLE SUBMISSIONS

Members are strongly encouraged to submit articles. Contact your club's Editorial Board representative. We generally use compressed mode printer copy with 3.5 inch columns and 8 lines per inch. Deadline for articles is the 15th of the month preceding publication.

OUR COVER ARTIST

Our cover this month was done by Jennifer Anderson, who works at Adventures with Nature and is a graphic arts student at LCC.

DECEMBER 1986
 SU MO TU WE TH FR SA
 1 2 3 4 5 6
 7 8 9 10 11 12 13
 14 15 16 17 18 19 20
 21 22 23 24 25 26 27
 28 29 30 31

CONSORTIUM CALENDAR

JANUARY 1987

FEBRUARY 1987
 SU MO TU WE TH FR SA
 1 2 3 4 5 6 7
 8 9 10 11 12 13 14
 15 16 17 18 19 20 21
 22 23 24 25 26 27 28

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
				HAPPY NEW YEAR!	CMARC	CCUG
4	5	6	7	8	9	10
	M36 EXEC	LACC ACM				
11	12	13	14	15	16	17
	TI USERS GROUP	HEATH SIG	ENERGY DEADLINE		CHAOS APPLE LUG	
18	19	20	21	22	23	24
AMIG M L King Day	M36					
25	26	27	28	29	30	31
	UPCO (IBM PC)		CP/M SIG			

LANSING AREA COMPUTER CLUBS

ACM (Association for Computing Machinery)
 Meets monthly. Contact Lew Crippen 377-6636 (days)
 371-3179 (evenings); Mary Dike or Walt Davis 377-6636
 (days)

AMIG (Amiga Mutual Interest Group)
 Meets Third Monday, 7:30 PM; 255 Physics-Astronomy
 Building, MSU. Contact Ray Ettinger, 646-6503.

ASM (Association for Systems Management)
 Meets monthly. Contact Richard Olson, CSP, at 323-7000
 ext. 289 (days).

Apple L.U.G. (Lansing Users Group) (MC2)
 Meets 3rd Saturday, 9:30 AM; 102 South Kedzie Hall,
 MSU, East Lansing. Contact PO Box 27144, Lansing, MI
 48909; Gary G. Martin 394-0115 after 6 PM.

CAPKUG (Capitol Area Kaypro Users Group)
 Meets monthly. Contact C. Stewart, 5731 Haverhill,
 Lansing, MI 48911; 882-7821.

CCUG (Greater Lansing Color Computer Users Group) (MC2)
 Meets First Saturday, 1:00 PM; East Lansing Public
 Library, 950 Abbott, E.L. Contact PO Box 14114,
 Lansing, MI 48901; Dale Knepper (president) 626-6917.

CHAOS (Capitol Hill Atari Owners Society) (MC2)
 Meets 3rd Saturday 10:00 AM; 118 Physics-Astronomy
 Bldg., MSU, East Lansing. Contact PO Box 16132,
 Lansing, MI 48901; Leo Sell (president) 393-7792.

CHAOS STING (ST Interest Group)
 Meets 2nd Saturday, 10 AM; 118 Physics-Astronomy Bldg.

CMARC (Central Michigan Amateur Radio Club)
 Meets 1st Friday, 8:00 PM; American Red Cross Bldg.,
 1800 E. Grand River, Lansing. Contact PO Box 10073,
 Lansing, MI 48901

Comp Klub of Lansing (TI Users Group)
 Meets 2nd Tuesday, 7:00 PM; Computer Consignments, 5501
 S. Cedar, Lansing. Contact John Hayes 882-7860.

The Commodore Club (of St. Johns)
 Meets Every Tuesday night, 7-10 PM. Contact David
 Smalldon 224-4678, evenings.

DECUS GLLUG (DEC Users Greater Lansing Local Users Group)
 Meets Approximately every 2 months at a local DEC user.
 Contact C. M. Watson (secretary) 483-1111 (days).

DRUG (DEC Rainbow Users Group)
 Contact Jeffrey Wehl 353-3717 (days) 349-6967
 (evenings).

LACC (Lansing Area Commodore Club)
 Meets First Wednesday, 7:00 PM; All Saints Episcopal
 Church, 800 Abbott, E.L. Contact PO Box 1045, East
 Lansing, MI 48823; Mike Boyce (president) 337-0454.

LAMALUG (Lansing Area Mac and Lisa User Group)
 Meets monthly on different day in first week, 7:00 PM,
 at Computer Consignments, 5501 S. Cedar, Lansing.
 Contact Dick McCarrick at Computer Consignments,
 394-4408; or Charles Winters 787-5731.

M36 (Mid-Michigan Microcomputer Group) (MC2)
 Meets Third Tuesday, 7:00 PM; Foster Community Center,
 200 N. Foster, Lansing. Contact PO Box 1302, East
 Lansing, MI 48823; Warren Wolfe (president) 337-7672.
 Executive Meetings First Tuesday, 7:30 PM; Beggar's
 Banquet, 218 Abbott, East Lansing.

M36 CMTUG (Central Mich. TRS-80 Users Group) SIG (MC2)
 Contact Lee Hodges 669-3258

M36 CP/M SIG (MC2)
 Meets Last Thursday, 7:30 PM; Foster Community Center,
 200 N. Foster, Lansing. Contact Tim Childs 321-4072.

M36 Heath/Zenith SIG (MC2)
 Meets 2nd Wednesday, 7:30 PM; All Saints Episcopal
 Church, 800 Abbott, E.L. Contact Tom Trana, 351-8655.

M36 Osborne SIG (MC2)
 Contact Larry Tirone 484-3921.

MSU MUG (MSU & Capitol Area Macintosh Users Group)
 Meets Monthly during MSU school year. Contact John
 Sykes 332-6720.

U.P.C.O. (Users' Personal Computer Organization--IBM PC group) (MC2)
 Meets 4th Tuesday, 7:30 PM; 116 Ag. Engineering Bldg.,
 MSU. Contact Skip Osterhus 321-3425.

Clubs designated (MC2) are members of the Michigan Computer Consortium.

This listing is as accurate as the information we receive.
 To list an event or update information, contact Joe Werner
 at (517) 337-7415.

Apple LUG	Mailing address: APPLE L.U.G. P. O. Box 27144 Lansing, MI 48909-7144	WHO: APPLE II and compatible owners/users in mid-Michigan.
		WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.
	Contact person: Gary Martin	WHEN: Meetings are 3rd Saturday of the month at 9:30 a.m.
	phone: 517-394-0115 (after 6:00 p.m.)	WHERE: Room 102, South Kedzie Hall on the MSU campus. The N corner of Farm Lane and Auditorium roads.
		EXTRA: Public-domain/ShareWare library, ENERGY newsletter, tutorials, and special interest groups (SIG's).
		HOW MUCH: Dues are \$12.00 a calendar year or \$1.00/mo prorated.

CCUG	Mailing address: CCUG P. O. Box 14114 Lansing, MI 48901	WHO: An organization devoted to Color computer and MC6809. WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.
	Contact person: Dale Knepper phone: 517-626-6917	WHEN: Meetings are 1st Saturday of the month at 1:00 p.m. WHERE: East Lansing Public Library 950 Abbott, East Lansing, MI EXTRA: Public-domain library, ENERGY newsletter.
		HOW MUCH: Dues are \$12.00 a calendar year or \$6.00 under age 18

M3G Mailing address: M3G
 P. O. Box 1032
 Lansing, MI 48823

 WHO: Open to general computer interests of all types.

 WHAT: Monthly meetings, consisting of announcements,
 questions and answers, and a program on some topic.

 WHEN: Meetings are 3rd Tuesday of the month at 7:00 p.m.

 WHERE: Foster Community Center
 200 North Foster, Lansing, MI

 EXTRA: Public-domain library, ENERGY newsletter,
 and special interest groups (SIG's).

 HOW MUCH: Dues are \$12.00 a calendar year.

Contact person: Warren Wolfe

 phone: 517-337-7672

UPCO	Mailing address: Skip Osterhus 219 Schooner Lansing, MI 48917	WHO: IBM and compatibles owners/users in mid-Michigan.
		WHAT: Monthly meetings, consisting of announcements, questions and answers, and a program on some topic.
	Contact person: Skip Osterhus	WHEN: Meetings are 4th Tuesday of the month at 7:30 p.m.
	phone: 517-321-3425	WHERE: Room 116, Ag Engineering building on the MSU campus located on the SE corner of Shaw and Farm Lane.
		EXTRA: Public-domain/ShareWare library, ENERGY and EXCHANGE newsletters, club bulleting board.
		HOW MUCH: Dues are \$5.00 per person per 12 months.

HAPPY NEW YEAR!!! I hope you survived the Holiday season in good shape, and that you'll join me in greeting and welcoming the new year. May it bring you joy, love, and prosperity!

I suspect that some of you found a new modem under your tree. If you did, congratulations, and welcome to the wonderful world of on-line computing. (If you didn't, you might find a good deal on an after-Christmas sale.) So here are some thoughts and ideas on getting on-line.

At the end of this article is a list of local Bulletin Boards (BBSs). This list is courtesy of Data Basics BBS, run by Warren Wolfe, President of M3G. It is reasonably complete and as correct as we can make it. But be aware that Bulletin Boards come and go, and most lists like this are out of date before they are compiled.

BE VERY CAREFUL AS YOU USE THIS LIST. Telephone numbers are easy to get wrong. It is very easy to transpose two numbers, and wind up calling someone who knows nothing about computers or Bulletin Boards. It's a good idea to call new BBS numbers during reasonable hours, so that if you have a wrong number, you aren't waking someone. Have your telephone handset handy, and be courteous if you do get a wrong number. There have been suggestions of regulation of on-line activity. A large number of complaints about computer-dialed wrong numbers at 3 A.M. will only encourage undesirable restrictions.

Be aware that there are several telephone exchanges locally that are very similar. Consider, for example, 349- and 394-, or 337- and 377-, or 332- and 322- and 323-. For some reason, I find these very easy to confuse. You might, also. So be sure to double- and triple-check the number you're calling.

There was a case a few years ago of a person with a 349- exchange getting a lot of computer calls. After much hassle, she found out that people were trying to get to a BBS with the same number, but in the 394- exchange. (That is, instead of calling 394-xxxx, they were dialing 349-xxxx.)

Some BBSs will cost you money. Many are free, but require you to register before granting you full access. BabbleNet, for example, offers several levels of service; the minimum is 50 cents per month. LSJ-Access is free but requires that you send a Self-Addressed Stamped Envelope with a request for a password to LSJ-Access, care of the Lansing State

Journal. Data Basics requires that you log on and leave a message to the SYSOP (SYStem OPERator) giving your name, address, telephone number, type of system, etc. The SYSOP later will give you the appropriate privilege settings. In all cases, READ THE SCREENS THAT COME UP WHEN YOU LOG ON FOR THE FIRST TIME, and do what the SYSOP requests. (It is his or her system, after all.)

Finally, remember that BBSs are there for all of our enjoyment. That includes you and me, but it also includes the SYSOP. Treat the SYSOP's system with respect. Give your real name, keep away from profanity or illegal postings (such as stolen credit card numbers) which could get the SYSOP into legal trouble, and in general, be reasonable.

Speaking of enjoyment, you will find that each BBS has a characteristic of its own. Some are game-oriented, some are information-oriented, some specialize in distributing public-domain or "freeware" software, and others are very specialized. (Check out Political Forum, or Psych Forum, or M.A.R.E., for specialized systems.)

BabbleNet has recently picked up an interesting service, called INFO-MAT magazine. Dennis Hill, SYSOP of BabbleNet, downloads a new copy of a "magazine" once a week. I just retrieved this week's magazine, and it printed out to 25 pages! In it are articles about the newest version of AutoSketch, a new version of True BASIC, a new distribution agreement for Tandon Corp. to distribute ATASI high-capacity, high-performance Winchester disk drives, new Atari ST software packages, warnings about fraudulent satellite TV descramblers, RCA/Columbia Pictures special price promotion on selected videocassette titles, an AT&T voice recognition experiment, and many more items. This one service, free to subscribers of BabbleNet, illustrates the information spreading power of Bulletin Boards.

If you just got a modem, you now get to explore a new and wondrous world of communication -- both computer and human. If you've had a modem for a while, maybe it's time to go exploring again -- there have been a lot of changes in a fairly short time. If you still don't have a modem, I hope I've given you some reasons to think about getting one. In all cases, happy computing!

Lansing area bulletin boards in alphabetical order
as of: 12/14/86
courtesy of Data Basics BBS

LEGEND

\$ User Fee Required
24 hours a day operation
! 2400 / 1200 / 300 baud
* 300 / 1200 baud
& 8 data bits, No parity
+ 7 data bits, Even parity

Babblenet (TBBS) (517) 321-9652 (TRS-80) \$\$\$&
o Dennis Hill, Sysop
Benchboard (517) 394-2447 (19:00 - 05:30) (COCO) #&
o John Evans, Sysop
The Cat's Meow (FIDO) (517) 694-6344 (IBM-PC) ##&
o Cathy Hartman, Sysop
Chaos (AMIS) (517) 371-1106 (ATARI) &
o John Nagy, Barry Schroeder, Mike Clewley, Sysops
City-Lite (517) 694-8041 (C-64) #&
o Norman Hettinger, Sysop
The Club (517) 372-3131 #&
o Terry Conklin, Sysop
L.A.C.C. Bulletin Board, Node #1 (517) 393-1193 #&
o Tim Devlin, Sysop
CompuServe 321-2388 \$\$\$+
o Commercial Service
Data Basics RBBS System (517) 337-0261 (IBM-PC) ##&
o Warren Wolfe, Sysop --- 1200 baud ONLY!
Fletcher Memorial Home (BBCS Atari) (517) 646-9114 #&
o Randy Pearson, Sysop
Gorgon's Lair (RBBS) (517) 349-1401 (22:00 - 10:00) &
o Cris Plyler, Sysop
I.B.M. E.S.S. (800) 426-3227
Jenny's Dog House (RBBS) (517) 374-1088 ##&
o Tim Brown, Sysop
LEARN (TBBS) (517) 355-3276 ##&
o David Novicki, Sysop
LSJ-ACCESS (TBBS) (517) 482-8144 ##&
o Dan Poorman, Sysop
M.S.U. Library CLSI (517) 355-3371 #+
M.S.U. Library RBBS (517) 353-7232 ##&
M.S.U. Cyber Timeshare (517) 353-8500 #+
Panama (517) 321-8358 (ATARI) #&
o John Sellek, Sysop
Panama II (517) 321-8580 (ATARI) #&
o Jim Sellek, Sysop
P.C. Pursuit RBBS System (800) 835-3001 ##&
Political Forum (TBBS) (517) 339-3783 ##&
o Gordon Williams, Sysop
PSYCH FORUM (TBBS) (517) 353-2003 ##&
o Gordon Williams, Sysop
R.J.'s Bit Bucket (FIDO) (517) 351-5637 #!&
o Rick Murray, Sysop
--- temporarily off-line with hardware problems

Rymalee's Refuge (RBBS-PC) (517) 627-8015 #!&
o Bob Peel, Sysop
SSSINet (FIDO) (517) 393-1982 ##&
o Don Damon, Sysop
UPCO / 4-H / CANR Lab. RBBS System (517) 355-6594
(17:00 - 07:30) *&
o Les Mack, Konstantin (Konny) Zsigo, Sysops

Toll-charge from Lansing:

Electronic Trade-N-Post 1 (517) 543-0604 (C-64) #
o John Sellinger, Sysop (Charlotte)
Lud's BBS (PC-Board) (517) 750-3307 ##&
o Brian Ludwig, Sysop
M.A.R.E. (Microcomputer Applications, Resources, and
Education) (FIDO) (616) 754-3077
o M. McFall, Sysop (Greenville, MI)
MicroNet (TBBS) 1 (517) 543-0228 (TRS-80) \$&
o Ladd Riether, Sysop (Charlotte, MI)
RCPM 1 (616) 693-2648 (CP/M) &
o Guy Rogers, Sysop (Lake Odessa, MI)

**We wish you
Peace and Joy
in this
Holiday Season
and throughout
the New Year**

K. A. T. Associates, Inc.
"KNOWLEDGE AND TECHNOLOGY"



P.O. Box 926
East Lansing, MI 48823
(517) 337-7415

COMPUTER SECURITY

by
Ginny Werner

Now that the holidays have passed, it is time to think about security for the new hardware and software you have gotten. Security comes in two parts, security for the physical hardware and security for the software and text files. Most of the security measures I will discuss are for the home computerist, but many may be applied to the office environment also.

There are various ways to lock up your hardware. These include locking the room where it is kept, locking the desk where it is kept, and securing a device to it that sounds an alarm if someone picks up the computer when the device is activated. Don't forget that many home-owners policies only cover a small portion of your computer's worth. It may be worth getting a rider on your current policy.

You can also take some precautions to prevent your hardware from being stolen. Don't advertise that you have a computer. Don't put it near a first floor window. If your going to throw the cartons away, break them down and put them in a garbage bag. (Better yet, keep the cartons for a year in case anything goes wrong.)

You should also take precautions to safe guard your diskettes. You should make copies of master diskettes whenever possible and put the master diskettes in a safe place. You should also keep them out of the reach of little children. I remember a poster Dick McCarrick had at Computer Consignments. It showed a little child playing with the diskettes and attempting to remove the mylar surface.

Protecting the software from unauthorized use is not usually as important to a home computerist as it is to a business. For a floppy base system, you can secure your files by locking them in a desk drawer or in a cabinet in another room. For a hard drive system it may be necessary to resort to encryption or "secret" directories.

Another area that most people don't think of is sending files to another computer via the modem. Again, for most people this is not important. However, someone with the right equipment can listen in on your phone call and steal your information. If your data is really sensitive, you should use encryption.

If what you are working on is really sensitive, you should know that some people claim that someone can reconstruct what is displayed on your CRT from its electro-magnetic emissions. You will want to talk to a consultant about protecting your data because equipment to guard against this is not readily available.

Lastly, you should know about "Trojan Horses". These are program that look innocent but destroy data, etc. Most of these are found in the public domain on bulletin boards. Most Sysops test programs they get from people they don't know, but they can't catch everything. Many bulletin boards have a list of the known "Trojan Horses". The best way to guard against these traps is to have current backups of everything.

ACM MEETING PLANNED

The next meeting of the Mic-Michigan Chapter of the Association for Computing Machinery (ACM) will be January 7, 1987, at the Mother Lode restaurant in East Lansing. (Meeting at 7:30 pm; social hour and dinner before.) Scheduled speaker is Mike Scieszka, of the Michigan Department of Natural Resources, who will speak on the "Michigan Land Resource Inventory". For more information, contact one of the people listed under ACM in the Calendar/Club List page in the front of this month's ENERGY.

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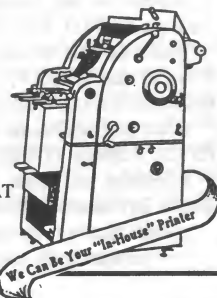
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APPLE LUG NEWS

Apple LUG Officers

<i>President:</i> Arie Koelewyn	1382 Red Leaf Lane, East Lansing	332-6988
<i>Vice-President:</i> Jim DeNike	3882 Okemos Rd., Okemos	349-3714
<i>Secretary:</i> Gary G. Martin	822 W. Willoughby Rd., Lansing	394-0115
<i>Treasurer:</i> Dick Ferris	502 W. Columbia St., Mason	676-9507

PROGRAM THIS MONTH

Plans for this month's program as of press time have not been finalized. As last reported we are trying to have Hartley Software come in with a presentation. This is a local company from Dimondale. They have created a variety of educational programs of interest to all. We will be meeting in our regular location in room 102 at S. Kedzie Hall on the M.S.U. Campus. We will be meeting on the third Saturday; January 18th at 9:30 a.m.

HAVE YOU RENEWED YET ?

Is this your last issue ? If you look at the label on the back of this issue it will tell you if you forgot to renew your membership with Apple L.U.G. If you renewed late then it will be caught before the next issue of *Energy* comes out. We all look forward to having you with us again this coming year.

OUR DECEMBER MEETING

For those of you who missed our December meeting you missed a fun and fulfilling (both eating and talking) meeting. We all thought it was a lot of fun. There was plenty to eat and lots of socializing by everyone. It was a time to get to know some of the other members in the Club.

We would like to heartilly thank the following area Dealers for their donations to our door prizes at the meeting: Computer Connection, Computer Consignments, Computerland, Marshall's Computer Supplies, and Software City. Without places like these where would we be today ?

The following people won door prizes:

Joe Adams - Disk box pack
Tony Atwater - Box of disks
Tom Basnight - Copy II +
Terri Cleary - Moebius
Dick Ferris - Copy II +
Stan Hecker - Bank St Writer
Arie Koelewyn - Copy II +
Gary Martin - F15 Strike Eagle
John Morton - Disk box
Bob Reynolds - Wizardry, Knight of Diamonds
Marvin Roney - The Writer
Charlie SanClemente - Box of disks
RoseMary Szarka - Exodus Ultima III

We also held our drawing from among those members who had renewed the membership with Apple L.U.G. The winner of the drawing was Terri Cleary. She won a subscription to Nibble Magazine.

As it turned out besides the above persons who won we were also able to make everyone a winner by giving the rest of the people at the meeting a certificate worth two disks from the Library. Congratulations to Everyone!

RESCUE RAIDERS - A REVIEW

Reviewed by Robert J. Reynolds
Program from Sir-Tech Software Inc.
6 Main Street
Ogdensburg, NY 13669

The premise of this 'Tactics/Strategy' game is that terrorists have, with the use of a time machine gone back to the Allied Invasion of Normandy during the Second World War. It is their intention, with the use of modern weapons to influence the outcome of that battle in favor of the Nazi forces. By doing this, they will change history (our present) to their advantage.

You, as the player also have a time machine and the same modern weapons. The array of equipment at your disposal includes attack helicopters, tanks, anti-aircraft missile launchers, missiles and bombs. You also have ground soldiers and engineers and most importantly, demolition team vehicles. The goal of the game is win eight(8) battles by getting a demolition team to the enemy time machine and blowing it up and thus preserve history.

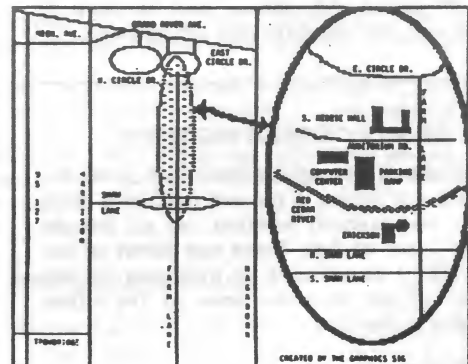
The helicopter is the only element that you have direct control over; along with its missiles, machine guns and bombs. The rest of the equipment and men can be sent into battle as long as you have earned enough money by staying in the air with your helicopter.

The game makers claim that it a combination of both tactics (shoot-em-up) and strategy and this is partly true, however, both elements fail to some degree in the marriage. Shooting down an enemy helicopter can usually only be accomplished if you 'get the drop' on it using the radar element of the screen before it appears in the battle arena. There doesn't seem to be any way to win an aerial combat engagement except to avoid the other helicopter and lead it into range of your ground based defenses.

It also seems unrealistic that both sides should have unlimited resources to throw into battle. While there is a score penalty for using too many elements, it would be a much better game if both sides had a limited and known amount of men and equipment to draw on. The preaching tone of the documentation about the evils of war not-with-standing, a war of attrition is about the best one can do.

The game is very playable however, and can be quite addictive once you have carefully read all of the documentation. This is very necessary. This is not the type of game that you can just boot and grab your joystick. The graphics are very good and the helicopter is very responsive to control. In fact, shooting ground based elements is almost too easy. One feature that was missing that was surprising was sound. With all of the shooting and bombing, a sound feature would have seemed to be a natural addition.

This game was reviewed on an Apple IIe with 128K of Ram although only 64K is required. A joystick and one disk drive is also necessary. It retails for \$34.95. The back-up is on the flip side of the program disk and the documentation is reasonably well written and quite detailed.



WAPACROSTIC

by Professor Apple

(Reprinted from WAP 8-86)

			1	I	2	Z	3	D	4	E	5	T	6	R		7	T	8	Z	9	H	10	T	11	L			12	S	13	I	14	M											
	15	F	16	Q	17	M	18	S		19	a	20	X			21	C		22	X	23	C	24	W	25	A	26	O			27	H	28	Y	29	J	30	F						
31	L	32	V	33	a			34	Y	35	F	36	A	37	J	38	L	39	Y	40	H			41	I	42	V	43	X	44	O			45	C	46	V	47	C	48	Y			
49	U	50	O	51	G	52	R	53	A	54	X	55	A	56	O			57	U	58	E	59	Q			60	P	61	M	62	W	63	S	64	W	65	R	66	R	67	Q	68	I	
69	H	70	E	71	I	72	K			73	D	74	E	75	N	76	H	77	G			78	F	79	Y			80	a			81	K	82	T	83	Q	84	F	85	a	86	B	
87	H	88	Q	89	P			90	a	91	J	92	Q	93	G	94	I	95	L	96	B			97	B	98	A	99	K	100	a	101	X	102	B	103	G	104	O	105	D	106	M	
			107	N	108	C	109	Y	110	P			111	R	112	A	113	N	114	Y	115	L	116	B	117	J			118	W	119	B	120	L	121	B	122	H	123	G	124	G		
		125	U	126	P	127	R	128	G				129	E	130	X	131	C	132	J			133	X	134	P	135	W			136	L			137	E	138	U	139	K				
			140	C	141	N	142	N	143	P	144	R	145	Z	146	V			147	a	148	T	149	Q	150	V	151	a			152	U	153	F	154	W								

Definitions

Words

A.	Permutation	112	98	25	36	53	55	
B.	Zeus' Game	119	121	96	102	97	86	116
C.	Furrow	47	108	21	45	140	131	23
D.	Elf; Goblin (Obs.)	3	105	73				
E.	Answer to a Reply	74	129	137	70	4	58	
F.	Augmenting	35	30	15	78	84	153	
G.	Irritated	123	103	93	124	51	128	77
H.	Weakened	27	87	69	9	40	76	122
I.	In Strong Health	13	71	1	94	68	41	
J.	"Old _ Bucket"	29	37	117	91	132		
K.	Liability	72	99	139	81			
L.	South American Republic	115	95	120	38	31	136	11
M.	Fabricate	17	14	61	106			
N.	Robber	107	113	141	75	142		

Definitions

Words

O.	Endure	44	26	50	104	56	.	
P.	Respiratory Disorder	126	110	143	89	60	134	
Q.	Constituted	92	149	88	16	67	83	59
R.	Came Up With	65	144	127	52	111	66	6
S.	Place	12	63	18				
T.	Renovate	10	148	5	7	82		
U.	Cornhusker City	138	49	152	125	57		
V.	Agitate	32	42	46	150	146		
W.	Wills	24	64	135	154	118	62	
X.	Pushing Off	20	133	101	130	43	54	22
Y.	Glisten	79	48	109	34	114	39	28
Z.	Night Before a Holiday	2	8	145				
a.	Holiness	151	80	100	90	33	19	85

Words

A. Avouch	M. Newsman
B. Matthew	N. Enforces
C. Shuts	O. Whispers
D. Dutch	P. Poem
E. Enjoy	Q. Rafted
F. Neighbor	R. Ottawa
G. Awake	S. Dieu
H. Punks	T. Universe
I. Patti	U. Cometh
J. Liberate	V. Tasty
K. Editorial	W. Shunts
L. Stroke	

ANSWERS TO LAST MONTH'S WAP ACROSTIC

"Every time we change our products, it opens up new market niches. Whoever ships first makes out like a bandit. Those who don't adjust are less fortunate, but that's the American way."

Author: Neal Amsden

Work: Apple's New Products

Source: Outside Apple - April Fools Edition

Warren Wolfe
President, M3G

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S P E C I A L N O T I C E T O M E M B E R S

The meeting dates for the Mid-Michigan Microcomputer Group are the third TUESDAY of each month. The meetings will take place at the Foster Community Center, 200 North Foster, just north of Michigan Avenue in Lansing. The meeting starts at 7:00 pm, SHARP, since we have to be done by 9:00 p.m.

M 3 G E L E C T I O N S

January is the month for the election of club officers for the Mid-Michigan Microcomputer Group. I strongly urge all M3G members (past, present, and prospective) to attend, and to vote if appropriate. In the great tradition of M3G I shall campaign dilligently for the office of ex-president.

Members should bear in mind the tendency of the membership to elect officers from those NOT present.....

P R E S E N T A T I O N T O P I C

Mr. Robert Raisch has graciously consented to present the topic of "Programming Languages: Which one When, and Why" at the January meeting. Mr. Raisch is a highly opinionated speaker with some interesting and unusual viewpoints. Any and all "language bigots" are urged to attend to defend their chosen means of expression. This promises to be a very interesting meeting. Please try to attend!

By Al Little

At this time, as you are reading this, Christmas is now a thing of the past. Due to the need to submit items for publication at the time we do, and the date of printing and mailing Energy to you, our meeting is usually over and the next meeting is just about here. Sooooo--

We hope that you have had a wonderful holiday and that all your wishes came true and that your CoCo received some nice presents also. Maybe a big brother (CoCo 3); possibly a disk drive, or two, maybe even double sided; or even a printer; could be that you received a modem. And, heaven forbid, everyone ignored your computer-oriented wishes and YOU had to buy the item or items yourself!!

And, if you are new to the CoCo family, one of the first things you should do, if not already receiving it, is order the Rainbow Magazine. The best written source of information available. Then don't just read it, study those articles that apply to your area of interest.

Secondly, get to the CCUG meetings and get involved. Ask questions. Take part in the interesting discussions. You will find somebody at these meetings that can answer your most puzzling questions and someone who can tell you where to get the answers if no one seems to have that answer.

For the regulars, bring your newest acquisition to the next meeting. ALSO, bring a friend. See you there!

The December meeting was held at the East Lansing Public Library on Abbott Road, our regular meeting place, on Saturday, Dec. 6, 1 p.m.

During the business meeting a good discussion centered on the upcoming Spring Consortium Show, renamed MAXIT for clarification purposes. For all the current details of the Show consult the November issue of Energy.

CCUG will be participating and committees will be set up at an early date. Plans are being made and we want to have much participation. Keep the date open (April 26 at the Clarion Hotel) and plan on taking an active part in this event. We will need equipment and personnel to give demonstrations, talk with interested attendees, man the tables, etc.

This is an excellent opportunity for all Consortium member clubs to fatten each club treasury and to show the public what our family of CoCo's will do. So be sure to attend the next CCUG meeting and get involved.

In doing some reading in the Oct., 1986 Personal Computing

Magazine we find some interesting items. Here are a few:

In their findings, of the 10 best-selling Personal Computers in 1985, the TRS-80 Color Computer tied with Apple IIc in Fifth place with 270,000 sales. The Commodore 64 was in First place with 600,000 sales.

They stated that the "5 Things a Personal Computer Will Be Able to Do in Five Years" are:

1. Transoarent use. No operating system commands or languages for user to know; transparent integration of telephone and personal computer.
2. Voice and data integration.
3. Access to hundreds of megabytes of data through use of optical disks and the appearance of read and write CDs.
4. Artificial intelligence-based applications that will be "smarter" then today's software.
5. Integration of desktop publishing into all areas of business. Less expensive, more powerful laser printers that will print in color.

Another of the predictions from an interesting article titled, "Technology at New Plateaus", was that the new and very powerful 32-bit Intel chip will be the next major step in technological advances. They stated that the "386 can do four million operations a second, giving it the power of a VAX minicomputer." Such fantastic progress from the time of the invention of the microprocessor in the early 1970s by Ted Hoff at Intel Corp., the Silicon Valley semiconductor manufacturer.

Murphy's Law as applied to computing:

Your software works with every printer except your own. You'll delete a whole line when you wanted to delete a word.

If you are able to beg, borrow or steal a copy of Personal Computing, Oct., 1986 issue, do so. You will find it filled with many good articles and lots of Computer Trivia.

Be sure to check the expiration date on the label affixed to this issue of Energy. It will let you know if your dues are due and if they are, get together with our treasurer, Craig Hahn at the next meeting. You won't want to miss an issue nor be in arrears. Thanks.

See you at the next meeting.

GET IT IN WRITING!

By R. Timothy Clements

One very valuable bit of legal advice, applicable to numerous situations, is "Get it in writing!" It makes sense that if you are purchasing computer hardware or software, you want some written assurance that you will receive the materials requested at an agreed-upon price, regardless of whether or not your salesman is present and remembers you when you go to pick it up. Apart from this threshold situation, when else is it wise to "get it in writing?"

You may be surprised by how the law affects the answer to this question.

Suppose you are assembling and selling clones, or turnkey systems. Now you are the seller, and the same laws which apply to your local computer store apply in large part to you. For example, under Michigan law, a contract to sell goods, such as a computer, for an amount of \$500 or more, is not enforceable unless there is some written agreement signed by the party against whom the contract is to be enforced. If you start ordering parts for a large order without a written document signed by the purchaser which describes your agreement, he may back out, leaving you with more computers than you can conveniently sell.

If you complete the sale, and receive your money, you still have to be concerned about the warranty obligations you assume. As a seller, you implicitly warrant the "merchantability" of the computer or system (that it is fit for the ordinary purposes for which such a computer or system is generally used) unless you properly exclude this warranty in a written contract. If the buyer is relying on your special knowledge or judgment to select and furnish the appropriate system, you may also be implicitly warranting the system's fitness for that particular purpose, unless you properly exclude this warranty in the contract also.

How about damages when the computer doesn't work as represented? Who pays for the cost of returning the system, or the cost of recreating a zapped database? Who pays for the "down time" (lost sales) in a business dependent on the system you furnished? As the seller, you may find you have open-ended liability, unless it is limited by the proper written agreement. The goal here is not to avoid all responsibility for problems which develop after the sale; it is to limit your responsibility to the repair of defects in your product which arise within a reasonable period of time after the sale.

Written agreements are useful for more than sales situations. Suppose you have a whiz-bang dBase III user on your staff, who wasn't hired as a programmer, but who has developed a lot of neat, useful (maybe critical) applications in his "free" time at the office or at home evenings and weekends. Your competitor offers him a job, and he accepts. Can he take all that programming with him? Absent a written agreement to the contrary, he may be able to (the exact facts would be important in answering this question). Can he really go to work down the street one day after leaving you, and work directly in competition with you? That question would be easier to answer, and may not even come up, if you had previously acquired a reasonable, written noncompetition agreement from him.

Writing a good agreement requires experience and a knowledge of the applicable laws. The more difficult task for you is realizing that you need a written agreement in the first place. I have only touched on a few situations which call for a written agreement; there are many more. If you don't know from personal experience when "getting it in writing" is necessary or advisable, then learn from those around you. Talk with knowledgeable friends, business people, or an attorney. A little effort now can avoid a lot of problems down the road.



A DAWG's View
by
DATA DAWG

Here I am in the Dawg House on New Years Day, and I have the doggonest Hangover from the party last night. It seems the the local techies were Partying over at the new hot spot, C.J. Barrymores. And you, my adoring public, knows what lengths The Dawg will go to get a story, even to put up with a headache on the first day of 1987.

Speaking of getting stories, last week I was with the boisterous boys from Boca Raton, drinking Pina Colodas at Ramons. There I was informed that the new PC II was in production and stacked up to the rafters in the warehouse in Texas. Everything you have heard is true. The machine is proprietary, meaning the all the expansion is Big Blue or nothing at all. The marketing rep. told me to watch the Skin's/Ram's game last Sunday. To my surprise, at the third quarter the IBM logo came up and male voice said to expect new announcements within the next thirty days. I couldn't believe my long floppy ears. IBM beforehand letting the customers know of new products before the official introduction? Could the long established marketing practice of never commenting about new products until they were released be abolished? The answer - YES, they have declared war in the PC market!

On the Apple front, it seems that Apple has released a special edition of the II GS. This one has the special edition logo on the front and the Woz's signature on it. This might turn out to be a collectors item someday. If you haven't seen the machine, take some time and go the the local Apple dealer and check it out. There is a music demo that will blow your socks off. With the sound chip that is capable of producing 16 different sound frequencies at once, the musical instrument that it can produce has a very realistic sound to it. Oh, did I forget to mention that the company is only producing two thousand of the special edition II GS? If you want one, you better hurry.

Do inquiring minds want to know? Yes, that's why they read this column. Have you notice the cheap, rip off, imitation of this type of column (Just kidding, imitation is the highest form of flattery) in Info World. I think he reads his copy of Energy and that's where he get his information. Like what you have read in the last four columns? GREAT! Don't like what you have read? Let the precious pouch know. I know for a fact that if you have a comment about this column or any thing you read in the greatest monthly publication to come out L.A. (Lansing Area), the editor wants to know. Speaking of inquiring minds, you have asked for it and now you are going to get it. Next month D.D. will give 10 predictions of what's going to happen in the computer industry in 1987. Jean Dixon doesn't know all.

Well this is the end of this months column. I am about to send this article to my new Epson LQ 2500 printer, hopefully it can keep up with the output of the Compaq 386. As always, if you want an official Data Dawg Collar just send a tip to any of the local bulletin boards, or send a self-addressed stamped envelope to the editor of Energy.

Arf Arf

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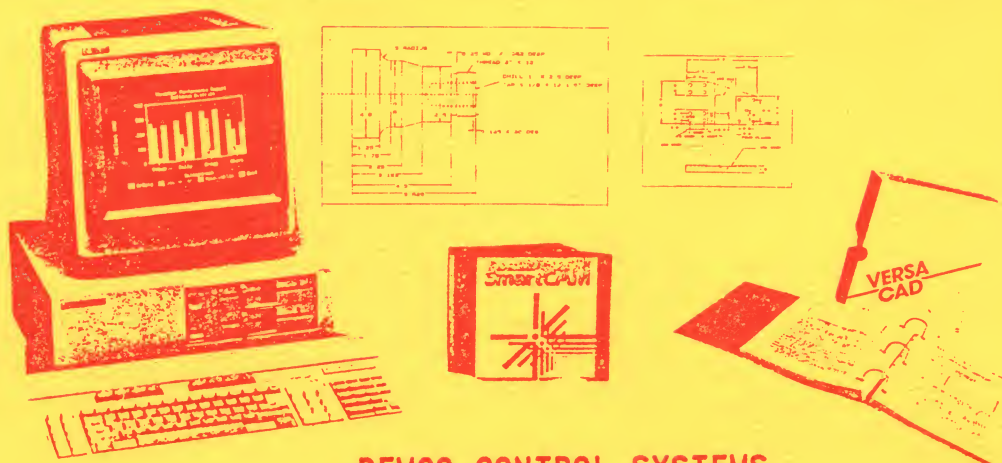
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